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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . . -	This Information has been Authorized for Release to . . .

National  
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1 DECEMBER 1977

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## IMAGERY INFORMATION REPORT

MODIFICATIONS TO THE CSA-1 TRACKING AND GUIDANCE  
RADARS, SAN-YUAN SAM TRAINING AREA, CHINA (S)

(TSR) Modifications to two CSA-1 tracking and guidance radars were identified at the San-yuan SAM Training Area, China, [REDACTED]

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(TSR) The first radar, previously identified as a probable new or modified FAN SONG, was initially observed in this area [REDACTED]. It is now confirmed and has been designated as the San-yuan A radar (Figure 1). The radar is near the center of the installation and has been modified by the addition of two parabolic dish antennas mounted on the end of the horizontal trough. The top dish [REDACTED] and has a stick feed. A second dish, [REDACTED] is mounted directly below the top dish; a stick feed was not discernible. Each dish is attached to the radar by an arm.

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(TSR) The second new or modified CSA-1 tracking and guidance radar, designated as the San-yuan B (Figure 2), was identified in the northeast corner of the training area. The radar has two probable parabolic dish antennas mounted atop the horizontal trough. The size of these probable parabolic dish antennas could not be determined; however, they did not appear to be as large as the dish antennas that are mounted on the Soviet FAN SONG E radar.

(TSR) The modifications to the tracking and guidance radars at this SAM training area indicate that an active and ongoing program designed to upgrade the electronic capabilities of the CSA-1 system is underway.

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## GEOGRAPHIC COORDINATES

34-39-00N 108-58-30E

COUNTRY CODE

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WARNING NOTICE  
Sensitive Intelligence Sources  
and Methods Involved

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